

Express Mail No. ER 930263610 US

Docket No. 21421 US C038435/0185661

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE ACTING AS  
DESIGNATED/ELECTED OFFICE (DO/EO/US) UNDER THE PATENT  
COOPERATION TREATY CONCERNING A FILING UNDER 35 U.S.C. § 371

*In re* Application of: )  
Tatsuo HOSHINO *et al.* )  
Based on Int'l Application No.: PCT/EP2003/010403 ) Examiner: Not yet assigned  
International Filing Date: 18 September 2003 ) Art Unit: Not yet assigned  
Filed: Herewith )  
For: **RECOMBINANT MICROORGANISM FOR** )  
**THE PRODUCTION OF VITAMIN B6** )

New York, NY  
March 23, 2005

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Applicants wish to make of record the following documents (clean copies and a Form PTO-1449 listing the documents are enclosed). The following documents were cited in the International Search Report, mailed February 4, 2004 in the International application corresponding to the above-captioned case.

**FOREIGN PATENT DOCUMENTS**

	<b><u>Document No.</u></b>	<b><u>Date</u></b>	<b><u>Country</u></b>
B1	0 950 715 A2	10/20/1999	Europe

## **OTHER DOCUMENTS**

- C1 Yang, Y. *et al.*, "Involvement of the *gapA*- and *epd* (*gapB*)- Encoded Dehydrogenases in Pyridoxal 5'-Phosphate Coenzyme Biosynthesis in *Escherichia coli* K-12," Journal of Bacteriology, vol. 180, no. 16, pp. 4294-4299 (1998).
- C2 Zhao and Winkler, "An *Escherichia coli* K-12 *tktA tktB* Mutant Deficient in Transketolase Activity Requires Pyridoxine (Vitamin B<sub>6</sub>) as well as the Aromatic Amino Acids and Vitamins for Growth," Journal of Bacteriology, vol. 176, no. 19, pp. 6134-6138 (1994).
- C3 Mittenhuber, G., "Phylogenetic Analyses and Comparative Genomics of Vitamin B<sub>6</sub> (Pyridoxine) and Pyridoxal Phosphate Biosynthesis Pathways," J. Mol. Microbiol. Biotechnol., vol. 3, no. 1, pp. 1-20 (2001).
- C4 Franco, M.G. *et al.*, "Structural Basis for the Function of Pyridoxine 5'-Phosphate Synthase," Structure, Current Biology Ltd., vol. 9, no. 3, pp. 245-253 (2001).
- C5 Martens, J.H. *et al.*, "Microbial Production of Vitamin B<sub>12</sub>," Appl. Microbiol. Biotechnol., vol. 58, pp. 275-285 (2002).

The Examiner's independent consideration of all of these documents and their relevance before issuance of the first official action is respectfully requested. The Examiner is also requested to initial and return a copy of the accompanying form PTO-1449 to evidence such consideration.

Copies of the International Search Report and International Preliminary Examination Report are included herewith. All documents cited in these reports are identified herein.

This Information Disclosure Statement is being filed in accordance with the provisions under 37 C.F.R. §1.97(b)(2), within three months of the date of entry of the national stage of the international application. Accordingly, no fee is believed to be due. If, however, a fee is due, please charge the same to Deposit Account No. 02-4467. A duplicate copy of this sheet is enclosed.

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- C1 Yang, Y. *et al.*, "Involvement of the *gapA*- and *epd* (*gapB*)- Encoded Dehydrogenases in Pyridoxal 5'-Phosphate Coenzyme Biosynthesis in *Escherichia coli* K-12," Journal of Bacteriology, vol. 180, no. 16, pp. 4294-4299 (1998).
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If the Examiner has any questions regarding this paper, please contact  
the undersigned attorney.

Respectfully submitted,

By: Charles M. Avigliano  
Charles M. Avigliano  
Registration No. 52,578  
BRYAN CAVE LLP  
1290 Avenue of the Americas  
New York, NY 10104  
Phone: (212) 541-2000  
Fax: (212) 541-4630

Form PTO-1449 (Rev. )	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 21421US C038435/0185661	INTERNATIONAL APPLICATION NO. PCT/EP2003/010403
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use several sheets if necessary)		APPLICANT Tatsuo HOSHINO <i>et al.</i>	
		INTERNATIONAL FILING DATE 18 September 2003	GROUP Not Yet Assigned

## U.S. PATENT DOCUMENTS

Examiner Initial	Cite No.	U.S. Patent Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	B1	0 950 715 A2	10/20/1999	Europe				

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

C1	Yang, Y. <i>et al.</i> , "Involvement of the <i>gapA</i> - and <i>epd</i> ( <i>gapB</i> )- Encoded Dehydrogenases in Pyridoxal 5'-Phosphate Coenzyme Biosynthesis in <i>Escherichia coli</i> K-12," <u>Journal of Bacteriology</u> , vol. 180, no. 16, pp. 4294-4299 (1998).
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C5	Martens, J.H. <i>et al.</i> , "Microbial Production of Vitamin B <sub>12</sub> ," <u>Appl. Microbiol. Biotechnol.</u> , vol. 58, pp. 275-285 (2002).

EXAMINER	DATE CONSIDERED
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	